



Standard Specification for Sealless Lube Oil Pump with Oil Through Motor for Marine Applications¹

This standard is issued under the fixed designation F2798; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

^{ε1} NOTE—The Keywords Section was editorially added in November 2014.

1. Scope

1.1 This specification defines the requirements applicable to design, construction and testing of sealless, rotary positive displacement pumps with oil-through motors for ship lubricating oil service. The complete pump and motor assembly is referred to as canned lube oil pump (CLP). This specification applies to CLPs pumping oil with a SAE rating of 20–50.

1.2 The values stated in inch-pound units are to be regarded as standard. No other units of measurement are included in this standard.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

- A27/A27M Specification for Steel Castings, Carbon, for General Application
- A159 Specification for Automotive Gray Iron Castings
- A193/A193M Specification for Alloy-Steel and Stainless Steel Bolting for High Temperature or High Pressure Service and Other Special Purpose Applications
- A194/A194M Specification for Carbon Steel, Alloy Steel, and Stainless Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both
- A216/A216M Specification for Steel Castings, Carbon, Suitable for Fusion Welding, for High-Temperature Service
- A395/A395M Specification for Ferritic Ductile Iron

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.11 on Machinery and Piping Systems.

Current edition approved Nov. 1, 2014. Published November 2014. Originally approved in 2009. Last previous edition approved in 2009 as F2798 – 09. DOI: 10.1520/F2798-09R14E01.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

Pressure-Retaining Castings for Use at Elevated Temperatures

- A449 Specification for Hex Cap Screws, Bolts and Studs, Steel, Heat Treated, 120/105/90 ksi Minimum Tensile Strength, General Use
- A536 Specification for Ductile Iron Castings
- A563 Specification for Carbon and Alloy Steel Nuts
- A564/A564M Specification for Hot-Rolled and Cold-Finished Age-Hardening Stainless Steel Bars and Shapes
- A574 Specification for Alloy Steel Socket-Head Cap Screws
- A582/A582M Specification for Free-Machining Stainless Steel Bars
- B23 Specification for White Metal Bearing Alloys (Known Commercially as “Babbitt Metal”)
- B148 Specification for Aluminum-Bronze Sand Castings
- B152/B152M Specification for Copper Sheet, Strip, Plate, and Rolled Bar
- B187M Specification for Copper Bar, Bus Bar, Rod and Shapes [Metric] (Withdrawn 2002)³
- B271 Specification for Copper-Base Alloy Centrifugal Castings
- B505/B505M Specification for Copper Alloy Continuous Castings
- B584 Specification for Copper Alloy Sand Castings for General Applications
- D2000 Classification System for Rubber Products in Automotive Applications
- D3951 Practice for Commercial Packaging
- F912 Specification for Alloy Steel Socket Set Screws
- F1510 Specification for Rotary Positive Displacement Pumps, Ships Use

2.2 ASME/ANSI Standards:⁴

- ASME/ANSI B16.5 Pipe Flanges and Flanged Fittings

³ The last approved version of this historical standard is referenced on www.astm.org.

⁴ Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Two Park Ave., New York, NY 10016-5990, <http://www.asme.org>.